

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of:

YOUNG-DOO KIM, ET AL.

Application No.:

Filed:

For: **APPARATUS AND METHOD FOR
ADAPTIVELY MODULATING SIGNAL
BY USING LAYERED TIME-SPACE
DETECTOR USED IN MIMO SYSTEM**

Art Group:

Examiner:

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §1.97

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure, enclosed is a copy of Information Disclosure Statement by Applicant (form PTO/SB/08), which is being submitted concurrently with the Utility Application. It is respectfully requested that the cited references be considered and that the enclosed copy of PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

The submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made in the subject application and is not to be construed as an admission that the information cited in this statement is material to patentability.

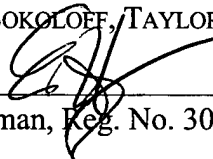
Please charge any fees due to Deposit Account 02-2666. A duplicate copy of the Fee Transmittal (PTO/SB/17) is enclosed for this purpose.

Date: _____

12/15/03

Respectfully submitted,

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Information Disclosure Statement

New U.S. Patent Application for
APPARATUS AND METHOD
FOR ADAPTIVELY MODULATING SIGNAL
BY USING LAYERED TIME-SPACE DETECTOR
USED IN MIMO SYSTEM
Our Ref. No.: P03E1013/US/jk

Reference No.:

- (1) KR Laid-Open No. 98-13075
- (2) US Patent No. 6,097,771
- (3) US Patent No. 4,679,227
- (4) US Patent No. 6,317,466
- (5) Multiuser OFDM with Adaptive Subcarrier, Bit, and Power Allocation
(*IEEE JOURNAL ON SELECTED AREA IN COMMUNICATIONS, VOL. 17, NO. 10, OCTOBER 1999, Pages 1747-1758*)
- (6) SPATIO-TEMPORAL CODING FOR WIRELESS COMMUNICATIONS
(*0-7803-3336/5/96, 1996 IEEE, Pages 1809-1814*)
- (7) Iterative Bit & Power Allocation for V-BLAST based OFDM MIMO System in Frequency Selective Fading Channel
(*0-7803-7376-6/02, 2002 IEEE, Pages 271-275*)
- (8) A Simplified Bit Allocation for V-BLAST based OFDM MIMO System in Frequency Selective Fading Channel
(*0-7803-7400-2/02, 2002 IEEE, Pages 411-415*)
- (9) V-BLAST: An Architecture for Realizing Very High Data Rates Over the Rich-Scattering Wireless Channel
(*0-7803-4900-8/98, 1998 IEEE, Pages 295-300*)

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Based on PTO/SB/08B (08-03) as modified by Blakely, Solokoff, Taylor & Zafman (wlr) 08/11/2003.
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